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(54) **Aldehyde cationic derivatives of galactose containing polysaccharides used as paper strength additives**

(57) Aldehyde cationic derivatives of galactose containing polysaccharides which are obtained by oxidizing galactose containing polysaccharides with the enzyme galactose oxidase. The enzyme oxidized products have an aldehyde function at a specific position of the polysaccharide, i.e., the C₆ position, of the galactose unit, and the cationic derivatives thereof have unexpected and significantly improved properties when used as paper strength additives.

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EUROPEAN SEARCH REPORT

Application Number
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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
Y	US 4 663 448 A (CHIU) * column 12, line 18 - line 22; examples 3,6 * * column 7, line 9 *	1-13	C08B37/14 C12P19/04 D21H17/31
Y	US 3 691 153 A (VEMURI K.) * column 2, line 54 - line 67 *	1-13	
Y	PATENT ABSTRACTS OF JAPAN vol. 14, no. 290 (C-731), 22 June 1990 & JP 02 091298 A (SANYO KOKUSAKU PULP CO LTD), 30 March 1990, * abstract *	1-13	
D,A	US 3 297 604 A (FELIX J. GERMINO ET AL.)		
A	US 4 557 801 A (AVIS)		
The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (Int.Cl.6)
			C08B D21H
Place of search		Date of completion of the search	Examiner
THE HAGUE		6 June 1997	Lensen, H
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

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